

100

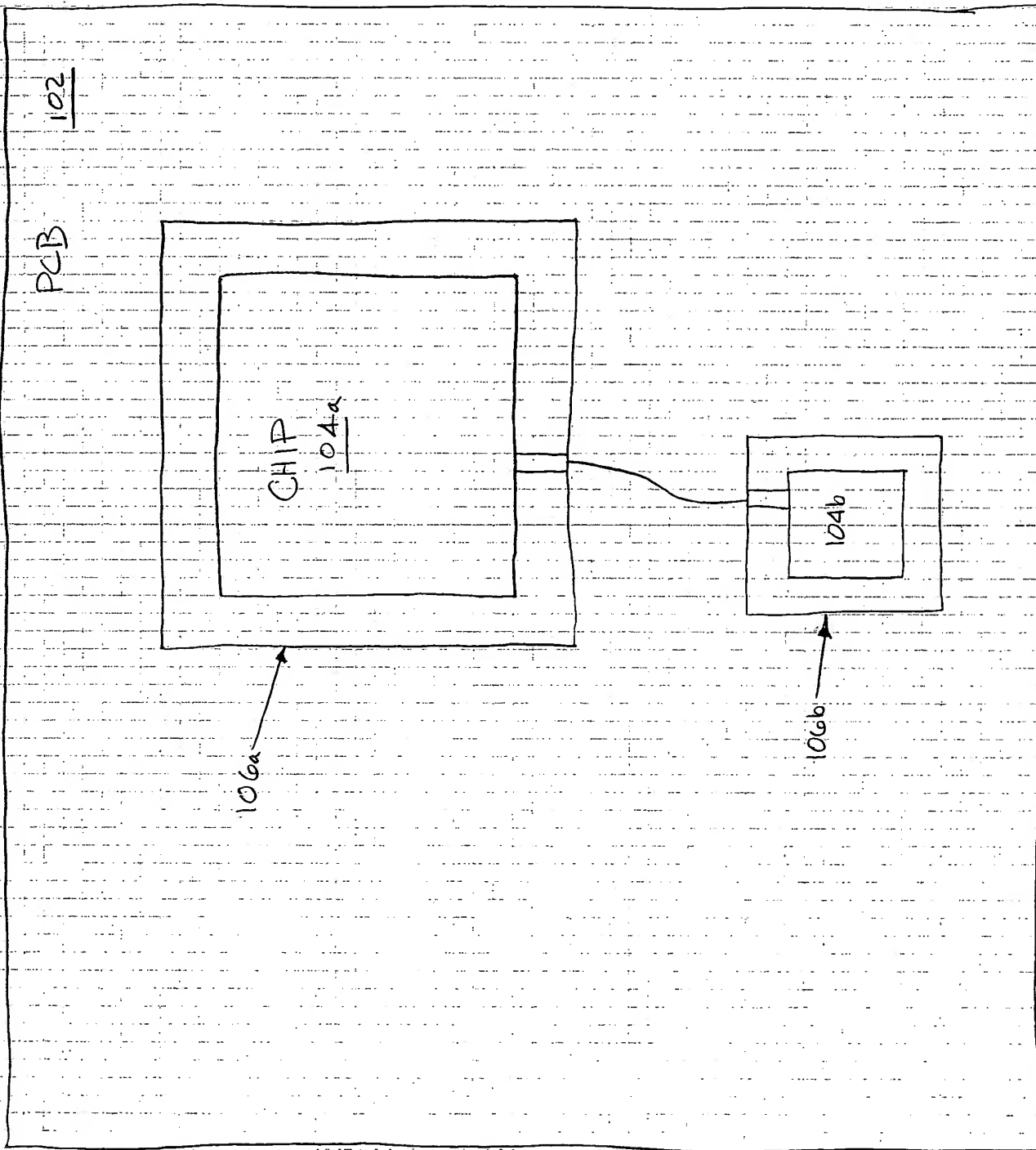


FIG. 1  
(PRIOR ART)

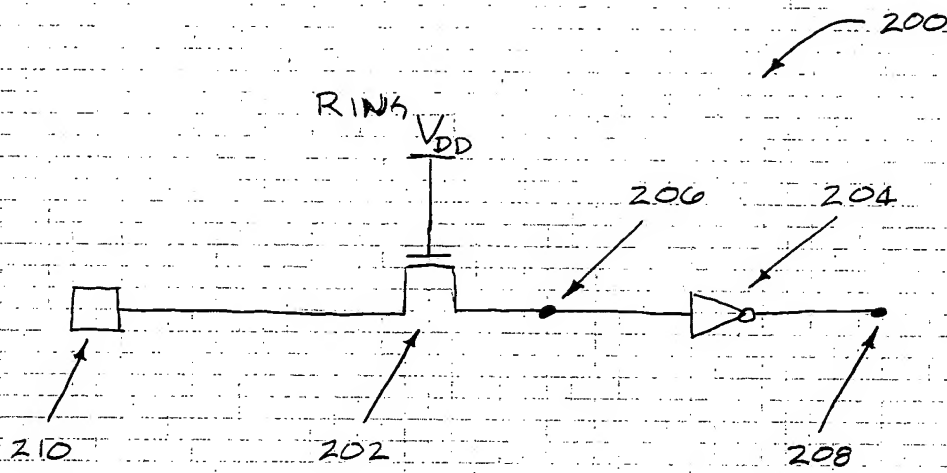


FIG. 2A  
(PRIOR ART)

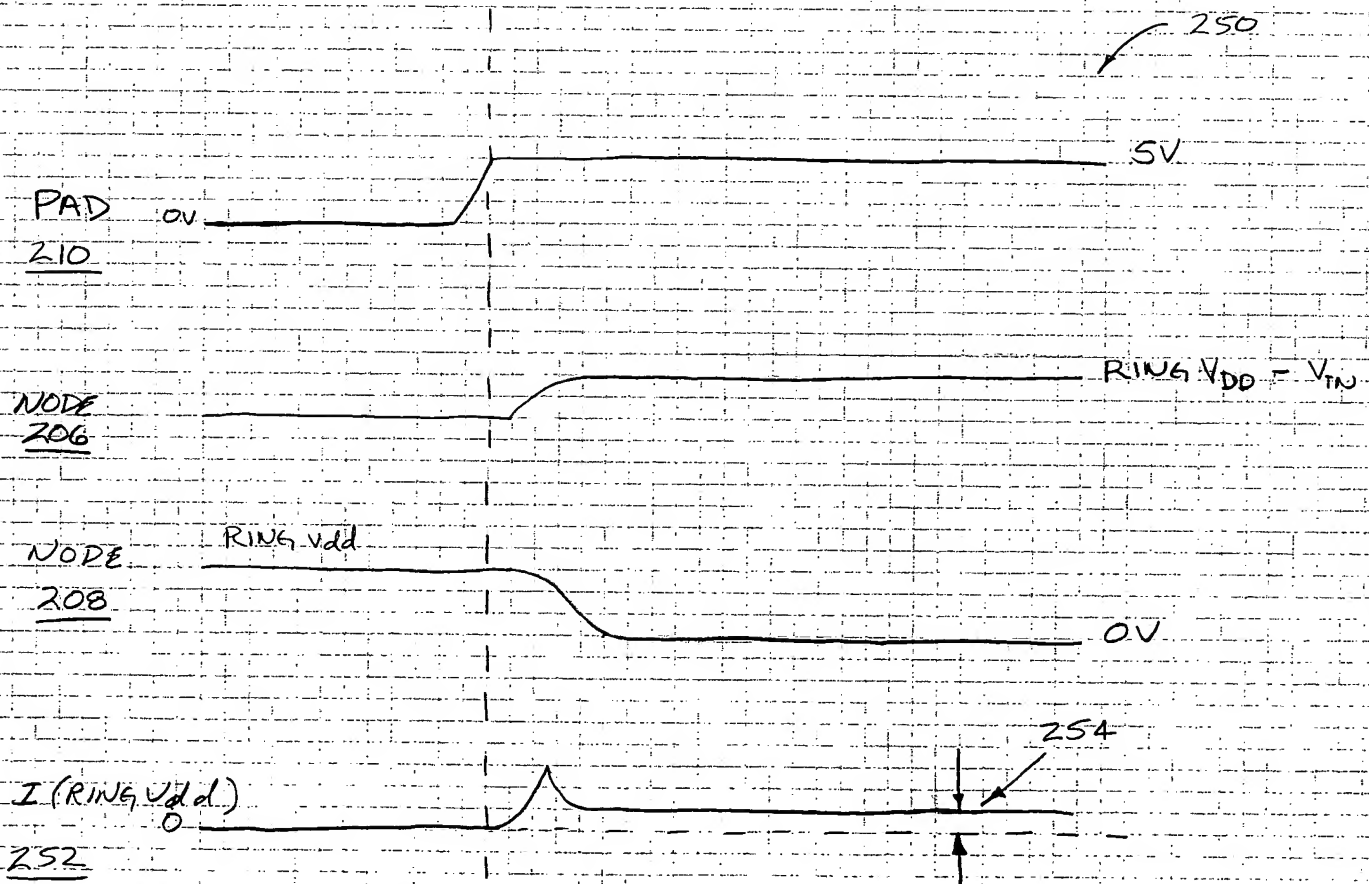


FIG. 2B  
(PRIOR ART)

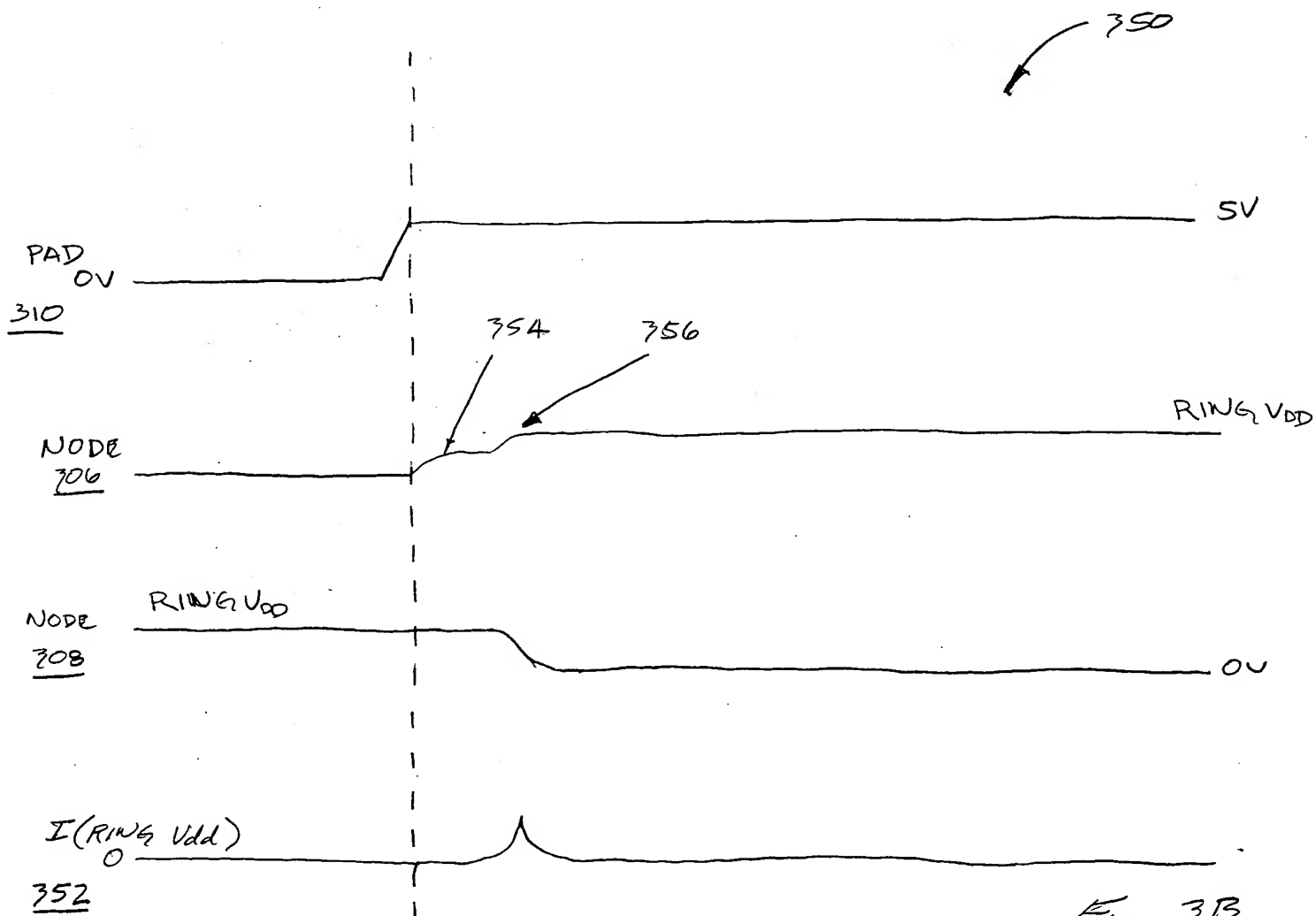
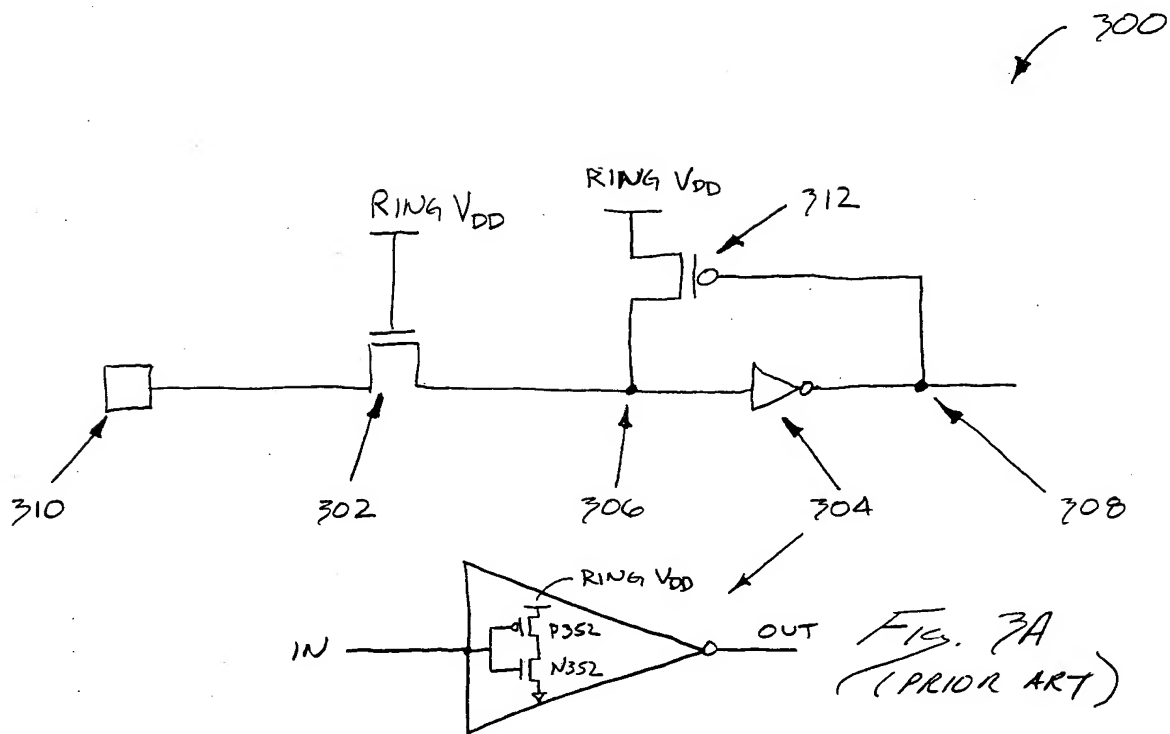


FIG. 3B  
(PRIOR ART)

400

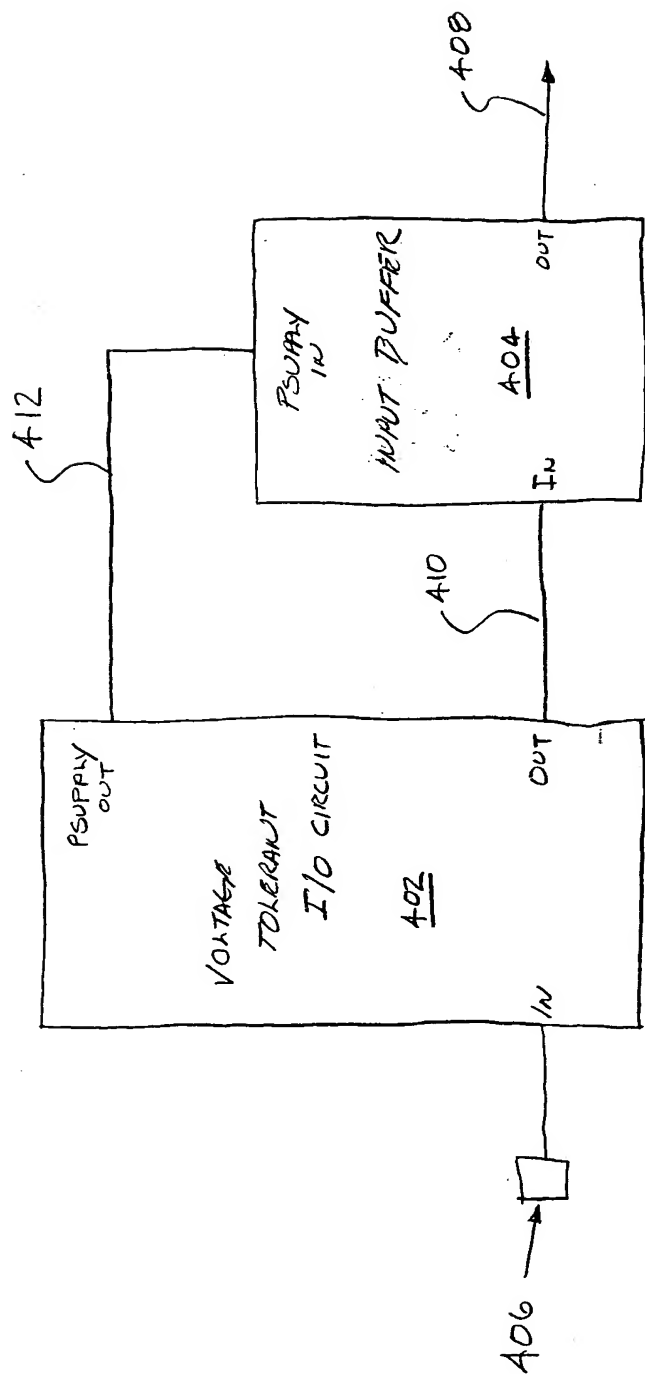


Fig. 4

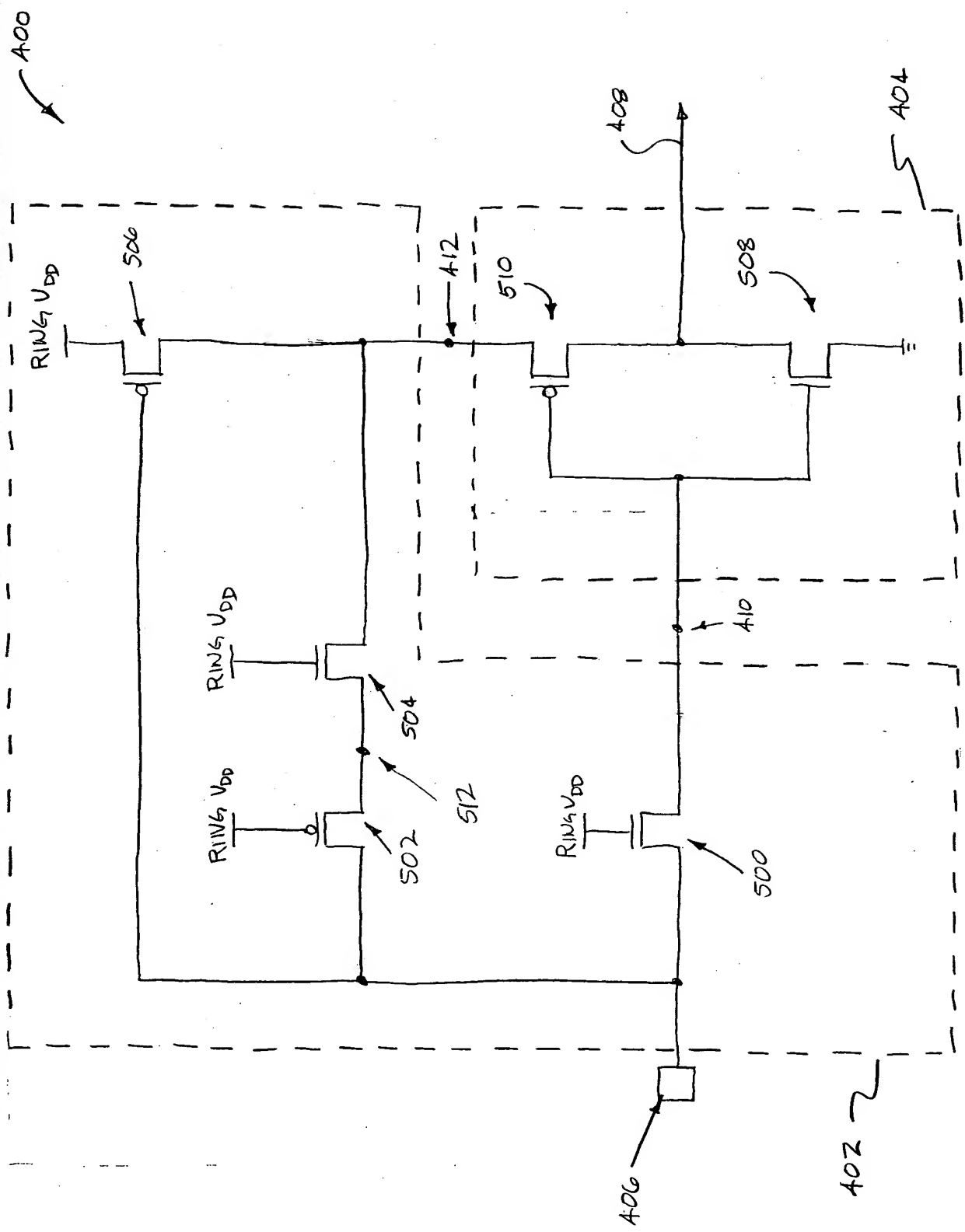


Fig. 5

600

PADI/O 0V  
406

5V

NODE 0V  
410

RING  $V_{DD} - V_{TN}$   
411

NODE RING  $V_{DD} - V_{TN}$   
512

5V

(P.SUPPLY)

NODE RING  $V_{DD}$   
412

RING  $V_{DD} - V_{TN}$

OUTPUT RING  $V_{DD}$   
408

0V

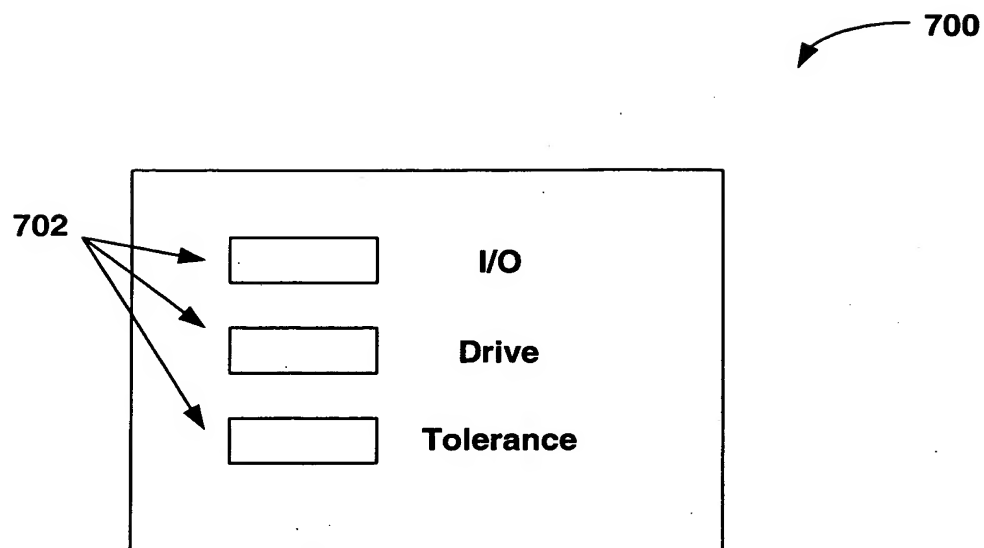
I(RING  $V_{DD}$ )

602

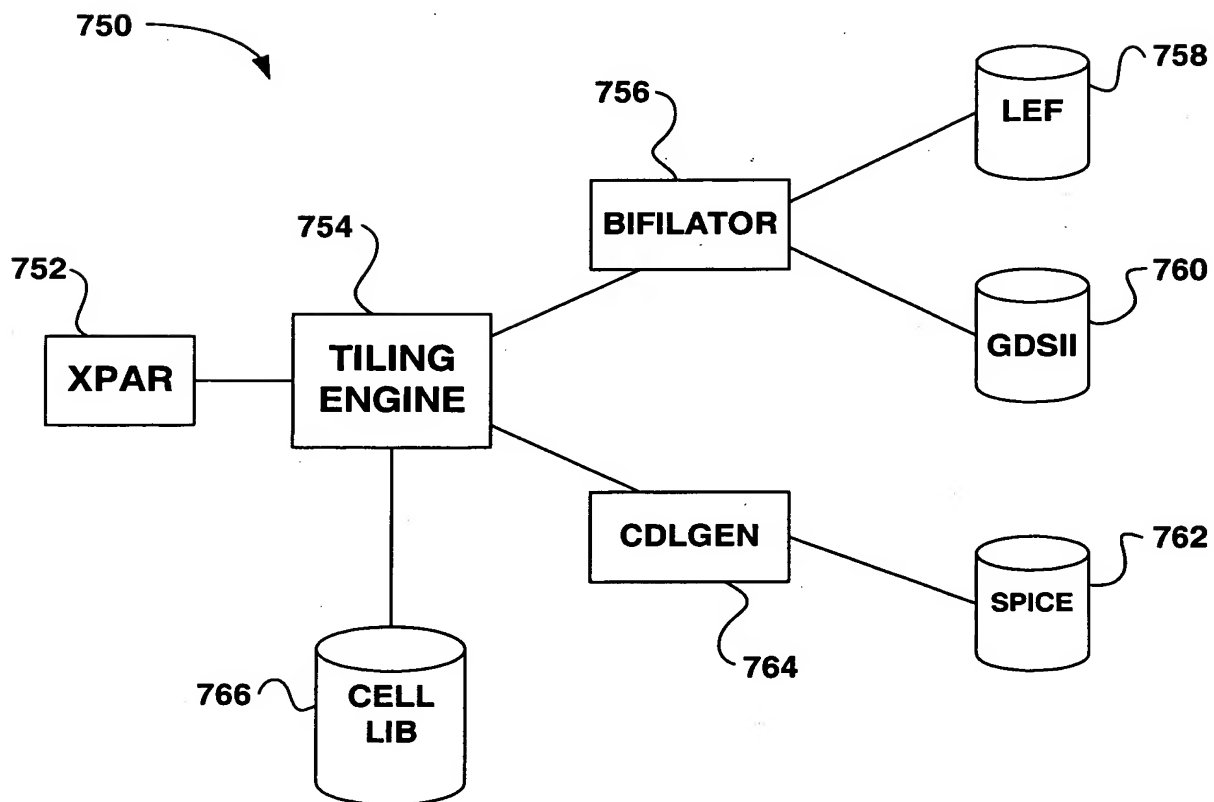
0

0

Fig. 6



**FIG. 7A**



**FIG. 7B**